

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)
2. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising:
the evaporator having a passage as part of the condensate artery.
3. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising:
the evaporator having a porous wick.
4. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising:
the evaporator having a wick forming an end of the reservoir.
5. (Currently Amended) ~~The heat pipe assembly as in claim 1, A~~
heat pipe assembly comprising:

a combined reservoir and evaporator; and a condenser having a condensate artery returning condensate to the reservoir, and further
comprising[[:]] the evaporator having a porous wick; and the condensate artery being coupled to a wick passage extending through the wick.

6. (Currently Amended) ~~The heat pipe assembly as in claim 1, A~~
heat pipe assembly comprising: a combined reservoir and evaporator; and a
condenser having a condensate artery returning condensate to the reservoir, and
further comprising[[:]] the condenser having an annular space surrounding the artery, the annular space collecting agglomerated slugs of condensate bridging across the annular space.

7. (Currently Amended) The heat pipe assembly as in claim
5[[1]], further comprising:
a thermo-electric cooler connected to the reservoir and the
evaporator.

8. (Currently Amended) The heat pipe assembly as in claim
5[[1]], further comprising:
a fan supplying supplemental cooling of the reservoir.

9. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising:
the evaporator having a porous wick and ducts of a vapor manifold that exhausts to the condenser.

10. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising:
a hollow tube imbedded in the evaporator as part of the artery, and a passage extending from the tube to the reservoir.

11. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising:
an initially open end of the condenser providing a site for evacuating the heat pipe assembly and for backfilling a quantity of working fluid in the artery.

12. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising:
the condensate artery being coupled to a hollow pipe that is imbedded in the evaporator.

13. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising: a secondary wick extending into the reservoir.

14. (Currently Amended) The heat pipe assembly as in claim 5[[1]], further comprising: a secondary wick unitary with a remainder of the wick, the secondary wick extending into the reservoir.

15. - 20. (Cancelled)

21. (New) The heat pipe assembly as in claim 6, further comprising: the evaporator having a passage as part of the condensate artery.

22. (New) The heat pipe assembly as in claim 6, further comprising: the evaporator having a porous wick.

23. (New) The heat pipe assembly as in claim 6, further comprising: the evaporator having a wick forming an end of the reservoir.

24. (New) The heat pipe assembly as in claim 6, further comprising: a thermo-electric cooler connected to the reservoir and the evaporator.

25. (New) The heat pipe assembly as in claim 6, further comprising:
a fan supplying supplemental cooling of the reservoir.

26. (New) The heat pipe assembly as in claim 6, further comprising:
the evaporator having a porous wick and ducts of a vapor manifold that exhausts
to the condenser.

27. (New) The heat pipe assembly as in claim 6, further comprising:
a hollow tube imbedded in the evaporator as part of the artery, and a passage
extending from the tube to the reservoir.

28. (New) The heat pipe assembly as in claim 6, further comprising:
an initially open end of the condenser providing a site for evacuating the heat
pipe assembly and for backfilling a quantity of working fluid in the artery.

29. (New) The heat pipe assembly as in claim 6, further comprising:
the condensate artery being coupled to a hollow pipe that is imbedded in the
evaporator.

30. (New) The heat pipe assembly as in claim 6, further comprising:
a secondary wick extending into the reservoir.

31. (New) The heat pipe assembly as in claim 6, further comprising:
a secondary wick unitary with a remainder of the wick, the secondary wick
extending into the reservoir.